

HIOWH

12.10.1



RE: Follow-up to T-18 Spill  
Medicus, Kimberly (ECY)

to:

Ravi Sanga

03/19/2012 12:14 PM

Cc:

"Zorzi, Howard (ECY)", "Bardy, Louise (ECY)"

Hide Details

From: "Medicus, Kimberly (ECY)" <kmed461@ECY.WA.GOV>

To: Ravi Sanga/R10/USEPA/US@EPA

Cc: "Zorzi, Howard (ECY)" <HZOR461@ECY.WA.GOV>, "Bardy, Louise (ECY)"  
<LBAR461@ECY.WA.GOV>

History: This message has been forwarded.

1 Attachment



SSA Australia Express Spill 3-9-12.JPG



Ravi,

I apologize for not getting back to you last week. I was only in the office for a very short time before I took sick leave.

First of all, when I spoke with you Monday I was not aware that there was any kind of RI/FS underway for the Terminal 18 site. The spill occurred from a 20 foot container that was being loaded upon a container ship, the Australia Express, by SSA personnel. The container damaged and the bladder containing approximately 6000 gallons began to leak. An a very vague 'couple hundred gallons' of the material left the dock through a series of 6 drains and entered the Duwamish River.

The Spills Team's primary objective, when the spill of the S-7079 material occurred, was to ensure that no more product was entering the waterway and that the clean-up of the spilled material was being handled

appropriately. At the request of our NRDA investigator, we took source samples of the S-7079 material spilled to the dock surface. We also took daily samples of the material that was entrained in the water column to prove that the pollution persisted over a number of days.

We contacted Alice Drury with NOAA to ask about the aquatic toxicity of the S-7079 product and to get some general information that was not listed on the MSDS. She stated that her contact at Louisiana State University said that the material did have some aquatic toxicity in high quantities, but the primary issue is that it has a tendency to remove dissolved oxygen if it persists.

The USCG was on scene the evening of 3-9-12 when the spill occurred. They did not return to the site on the following days because the material was not a CERCLA listed substance.

Unfortunately, the Spills Team does not have access to any information regarding who is in control of clean-up sites along the Duwamish. I contacted our Toxics Cleanup Program personnel on the following Monday and I was told that we are not responsible for any of the clean-up in the Terminal 18 area and told to contact you.

When I spoke with you, our thinking—from purely a Spill Response standpoint—was that the S-7079 material may have entered the sediments in the area of the spill and we were interested in whether it would have any long-term environmental impacts. Our NRDA team suggested that taking a small sediment sample might help in their case. I contacted you to request permission to take the sample because we had a dive team scheduled to do a post-spill assessment to determine the persistence of the material in the water column.

I apologize if any confusion has taken place. I am willing to assist you in whatever capacity that I am capable of, but I was only involved in the emergency phase of the incident and not in control of any subsequent clean-up activities that may be forthcoming as a result of the accident.

I have attached a Google map document indicating the approximate latitude and longitude of the drains where the material left the dock and spilled to the water/riprap. That area is marked with a red oval. The yellow oval indicates where the material was seen floating within the water column in the Duwamish River. Much of it was flushed out by the River and tidal action into Elliott Bay.

I will forward you the HCID report in a separate email and fax you the copy of the MSDS that I was given.

Best,

Kimberly Medicus  
Washington State Department of Ecology  
Spill Responder  
Phone: 425-649-7291  
Cell: 425-457-1964

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**From:** Ravi Sanga [<mailto:Sanga.Ravi@epamail.epa.gov>]  
**Sent:** Monday, March 19, 2012 9:20 AM  
**To:** Medicus, Kimberly (ECY)  
**Subject:** Follow-up to T-18 Spill

Kym -- I am just following up to the spill that occurred at East Waterway last week. As you are aware, the East Waterway is part of the Harbor Island Superfund site and EPA and the Port of Seattle are conducting a Remedial Investigation and Feasibility Study of the entire waterway. EPA needs to be involved with decisions on the next steps that will be taken to address the contamination. As we discussed, please send me the draft data report that Ecology has regarding the nature of the petroleum distillate contamination at T-18.

Should you have any questions, please give me a call.

regards,

Ravi

Ravi Sanga, MS  
Environmental Scientist - Remedial Project Manager  
US EPA Region 10  
Office of Environmental Cleanup  
phone: (206) 553-4092  
fax: (206) 553-0124





**Latitude, Longitude:** 47.58227215215811, -122.34647512435913

# **Manchester Environmental Laboratory**

7411 Beach Dr E, Port Orchard, Washington 98366

## **Case Narrative**


**March 13, 2012**

Subject: SSA 2-7079 Spill 3-9-12 Project

Sample(s): 1203060-01

Officer(s): Kimberly Medicus

Work Order#: 1203060

By: Bob Carrell 

## ***Hydrocarbon Identification Analysis***

### **Analytical Method(s)**

The sample was extracted with methylene chloride then analyzed, along with a method blank and various petroleum product standards, by gas chromatography with flame ionization detection (GC/FID). This method is consistent with a modified EPA SW-846 Method 8015B and/or ASTM Method D-3328.

### **Holding Times**

The sample was analyzed within the recommended method holding time.

### **Calibration**

This is not applicable in the traditional sense since only various petroleum products standards are analyzed to establish chromatographic product "fingerprints".

### **Blanks**

No analytically significant levels of any petroleum product or hydrocarbon were detected in the method blank (B12C094-BLK1) associated with this sample.

## Comments

The HCID analysis showed the following:

<u>Sample</u>	<u>Result</u>
1203060-01	A heavy mineral spirits type product and probably either a vegetable or animal oil.

Aliphatic mineral spirits has a range of compounds from nC9 through nC12 whereas the mineral spirits type product in this sample has a range of compounds from nC11 through nC14.

The possible vegetable or animal oil was suggested by the fact that significant amount of this sample was not immediately soluble in methylene chloride and after treating the extract with an acid and a base followed by methanol addition, several discrete compounds were produced. This is suggestive of the change produced in fatty acid triglycerides when subjected to the acid/base/methanol treatment to produce fatty acid methyl esters. Confirmation of the presence of fatty acid triglycerides would require a more extensive analysis.



Washington State Department of Ecology  
Manchester Environmental Laboratory  
Final Analysis Report for  
Hydrocarbon Identification

Project Name: SSA 2-7079 Spill 3-9-12

Work Order: 1203060

Project Officer: Medicus, Kimberly

Analyte: Hydrocarbon identification

Method: HYDRO-ID

Matrix: Oil/Solvent

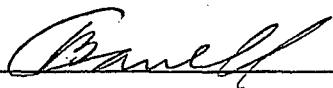
Sample #	Sample ID	Collected	Analyzed	Result
1203060-01	Dock	03/09/12	03/13/12	This sample contains a heavy mineral spirits and probably either a vegetable or animal oil.

QC Results for Batch ID: B12C094

Method Blank

B12C094-BLK1      Blank      No detectable petroleum hydrocarbons or products found.

Authorized by:



Release Date:

3-14-12

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3/14/2012



FW: Final Report  
Medicus, Kimberly (ECY)  
to:  
Ravi Sanga  
03/19/2012 12:19 PM  
Hide Details  
From: "Medicus, Kimberly (ECY)" <kmed461@ECY.WA.GOV>

To: Ravi Sanga/R10/USEPA/US@EPA

History: This message has been forwarded.

1 Attachment



SSA 2-7079 Spill -1203060.pdf

Ravi,

I requested an HCID report from our lab for our source sample. Here are the results.

Best,

Kimberly Medicus  
Washington State Department of Ecology  
Spill Responder  
Phone: 425-649-7291  
Cell: (b) (6)

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**From:** Rosenbower, Nancy (ECY)  
**Sent:** Friday, March 16, 2012 11:18 AM  
**To:** Medicus, Kimberly (ECY)  
**Subject:** Final Report



**CYTEC****MATERIAL SAFETY DATA SHEET**

MSDS No: 06263  
CAS No: Mixture  
Date: 02-Jul-2001  
Supersedes: 25-May-2001

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY****PRODUCT NAME: S-7079 Mining Intermediate****PRODUCT DESCRIPTION:** Modified polyacrylamide in water-in-oil emulsion**CLASSIFICATION:** Hazardous according to criteria of Worksafe Australia**CYTEC AUSTRALIA HOLDINGS PTY LIMITED, SUITE 1, LEVEL 1, 21 SOLENT CIRCUIT, BAULKHAM HILLS, NSW, 2153, AUSTRALIA, TEL 61 2 9846 6200****EMERGENCY PHONE: IN AUSTRALIA: 1800 033 111; IN NEW ZEALAND: 0800 734 607; IN PAPUA NEW GUINEA: +61 3 9663 2130****2. COMPOSITION/INFORMATION ON INGREDIENTS****HAZARDOUS INGREDIENTS**

COMPONENT	CAS. NO.	%	SYMBOL	RISK PHRASES
Petroleum distillate hydrotreated light	064742-47-8	24.9	Xn	R65

**3. HAZARDS IDENTIFICATION****HUMAN HAZARDS**

Irritating to skin.

**4. FIRST AID MEASURES****INGESTION**

Seek medical advice immediately and show the container, label or this data sheet.

Only induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.

**SKIN CONTACT**

Take off immediately all contaminated clothing.

Wash immediately with plenty of water.

Do not reuse contaminated clothing without laundering.

Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

**EYE CONTACT**

Rinse immediately with plenty of water for at least 15 minutes.

**INHALATION**

Remove to fresh air.

If breathing is difficult, give oxygen.

Obtain medical advice if there are persistent symptoms.

**5. FIRE FIGHTING MEASURES****EXTINGUISHING MEDIA**

Use water spray, carbon dioxide or dry chemical.

**PROTECTIVE EQUIPMENT**

Firefighters, and others exposed, wear self-contained breathing apparatus.  
Wear full firefighting protective clothing.  
See Section 8 (Exposure Controls/Personal Protection).

**SPECIAL HAZARDS**

Keep containers cool by spraying with water if exposed to fire.

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**6. ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Spills are very slippery.

**METHODS FOR CLEANING UP**

Product may cause a slip hazard.  
Spilled material should be absorbed onto an inert material and scooped up.  
Flush spill area with water.  
If slipperiness remains apply more dry-sweeping compound.

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**7. HANDLING AND STORAGE****HANDLING**

None

**STORAGE**

To avoid product degradation and equipment corrosion, do not use iron, copper or aluminum containers or equipment.

Flashpoint determinations on materials of this type are required by certain regulations and scientific standards to be performed using a Pensky-Martens type closed cup test method. This method indicates a flash point greater than 93.3 C (200 F). Although there was no flashpoint detected below 93.3 C (200 F) by the Pensky-Martens Closed Tester method, some flammable vapors were evolved during the test as evidenced by the enlargement of the test flame; therefore, caution should be exercised during storage and handling.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****CONTROL PARAMETERS - Australian or USA**

COMPONENT	CAS. NO.	%	VALUE	REFERENCE
Petroleum distillate hydrotreated light	064742-47-8	24.9	not established	NOHSC:1003
			1200 mg/m3	Supplier
			500 ppm	OSHA
			165 ppm	Supplier

**ENGINEERING MEASURES**

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure.

**RESPIRATORY PROTECTION**

In case of insufficient ventilation, wear suitable respiratory equipment.

**EYE PROTECTION**

Wear eye/face protection such as chemical goggles or face shield.  
Eyewash equipment and safety shower should be provided in areas of potential exposure.

**SKIN PROTECTION**

Wear impermeable gloves and suitable protective clothing.

**ADDITIONAL**

Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use.

Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

COLOUR:	white
MATERIAL STATE:	liquid
ODOUR:	sulphur
BOILING POINT:	Similar to water
MELTING POINT:	Similar to water
VAPOUR PRESSURE:	Similar to water
SPECIFIC GRAVITY:	1.0
VAPOUR DENSITY:	Similar to water
% VOLATILE (By Wt.):	70
pH:	4 - 6
EVAPORATION RATE:	Not available
SOLUBILITY IN WATER:	Limited by viscosity
FLASH POINT:	>100 C
FLASH POINT METHOD:	Pensky-Martens Closed Cup
FLAMMABLE LIMITS (% By Vol):	Not available
AUTOIGNITION TEMP:	Not available
DECOMPOSITION TEMP:	Not available

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**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**CONDITIONS TO AVOID**

None known

**MATERIALS TO AVOID**

Avoid aluminium, iron and copper

**HAZARDOUS DECOMPOSITION PRODUCTS**

carbon monoxide; carbon dioxide; ammonia; oxides of nitrogen; oxides of sulphur (includes sulphur di and tri oxides)

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**11. TOXICOLOGICAL INFORMATION****EEC SUBSTANCE/PREPARATION TOXICITY CLASSIFICATION**

Acute LD50; oral; rat	Not applicable	>5000 mg/kg
Acute LD50; dermal; rabbit	Not applicable	>2000 mg/kg
Acute LC50 (4 hr); inhalation; rat	Not applicable	>20.0 mg/l
Acute Irritation; dermal	Irritating	
Acute Irritation; eye	Not irritating	
Sensitization; dermal	Not sensitizing	

S-7079 Mining Intermediate

MSDS No: 06263 Date: 02-Jul-2001

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Sensitization; inhalation  
Ames Salmonella Assay

Not sensitizing  
No data

**POTENTIAL HEALTH EFFECTS**

Irritating to skin.

**HAZARDOUS INGREDIENT TOXICITY DATA**

064742-47-8 Petroleum distillate hydrotreated light

Type	Route	Species	Results	Assessment
Acute LD50 (Actual)	oral	rat	>5 g/kg	Not applicable
Acute LD50 (Actual)	dermal	rabbit	>3.16 g/kg	Not applicable
Acute Dermal Irritation				Not irritating
Acute Eye Irritation				Not irritating

**12. ECOLOGICAL INFORMATION****ASSESSMENT**

No aquatic LC50, BOD, or COD data available.

**TEST RESULTS**

Octanol/H2O Partition Coef.: Not available

**13. DISPOSAL CONSIDERATIONS**

CYTEC encourages the recycle, recovery and reuse of materials, where permitted. If disposal is necessary, CYTEC recommends that organic materials, especially when classified as hazardous waste, be disposed of by thermal treatment or incineration at approved facilities.

All local and national regulations should be followed.

**14. TRANSPORT INFORMATION****AUSTRALIA (ADG)**

Hazchem Code: Not Applicable Poisons Schedule No.: None Allocated

**INTERNATIONAL SHIPPING INFORMATION****IMO**

SHIPPING NAME: NOT APPLICABLE/NOT REGULATED

HAZARD CLASS: Not applicable

SUBSIDIARY CLASS: Not applicable

UN NUMBER: Not applicable

PACKING GROUP: Not applicable

TRANSPORT LABEL REQUIRED: None required

**ICAO/IATA**

SHIPPING NAME: NOT APPLICABLE/NOT REGULATED

HAZARD CLASS: Not applicable

SUBSIDIARY CLASS: Not applicable

UN NUMBER: Not applicable

S-7079 Mining Intermediate

MSDS No: 06263 Date: 02-Jul-2001

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PACKING GROUP: Not applicable

TRANSPORT LABEL REQUIRED: None required

**ADDITIONAL TRANSPORT INFORMATION**

TECHNICAL NAME (N.O.S.): Not applicable

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**15. REGULATORY INFORMATION****MARKING AND LABELING**

SYMBOL: XI Irritant

RISK PHRASES: R38 Irritating to skin.

SAFETY PHRASES: S81 Spills are very slippery.

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**INVENTORY INFORMATION**

AUSTRALIA: All components of this product are included in the Australian Inventory of Chemical Substances (AICS).

EEC EINECS: All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are polymers of which the components are in EINECS, in compliance with Council Directive 67/548/EEC and its amendments.

US TSCA: All components of this product are included on the TSCA Inventory in compliance with the Toxic Substances Control Act, 15 U. S. C. 2601 et. seq.

CANADA  
DSL: Components of this product have been reported to Environment Canada in accordance with subsection 25 of the Canadian Environmental Protection Act and are included on the Domestic Substances List.

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**16. OTHER INFORMATION****REASON FOR ISSUE**

New Company Identification

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Randy Deskin, Ph.D., DABT  
Australian Contact Point Regulatory Manager (02) 9846 6200

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